Skilling for Future with Hands practical experience on Basic Electronics at Govt. Engg. Amravati

We are living in a generation that uses electronics and technology, where robots and artificial intelligence has made the machines capable of doing the human work with more ease and efficiency. Electronics has made our lives more convenient and efficient and has also helped saving a lot of time. These electronic devices have become a part and parcel of our daily lives and it is almost impossible to imagine living without them.

The basic electronics concepts are fundamental to all the electronic gadgets and systems, and understanding them helps to comprehend and implement more complex systems and ideas. It is therefore extremely important for the young engineers to have complete knowledge about the basics of electronics while stepping into the world of Electronics engineering. Focusing on the importance and necessity of acquiring practical knowledge along with the theoretical concepts, Department of Electronics and Telecommunication Engineering, Government College of Engineering, Amravati organized a one-week "Hands-on training on Basic Electronics", in association with AMB's C-DSP, Aurangabad (M.S.). The one week training program (26th Dec 2022 to 1st Jan 2023) was organized for the students of Second year B..Tech., Electronics.

The only idea behind organizing the hands-on training was to make the students acquainted with the practical fundamentals of electricity and electronics, operating principles and applications of RLC circuits, basic electronic devices like diodes, transistors, MOSFETs, display devices, various sensors, transducers and motors. The training aimed at making the students able to design PCB for practical application circuits using these devices, on their own.

The workshop was inaugurated by Principal, Dr. A. M. Mahalle, in the presence of the guest speaker, Mr. Pravinkumar Ambekar, Director of AMB's C-DSP and Ambekar Associates, Aurangabad, along with Head of the department, faculty members and students of Electronics department.

The students had a hands-on working experience of the practical aspects of the basic electronic devices while exploring the use of CROs, designing PCB, and soldering the components by themselves. Practical introduction to IoT, robotics and Arduino boards was also covered. The students designed and implemented Voice controlled LED ON/OFF circuit,

robotic wheel movement circuit and other such small application-based circuits. The hands-on training program received an overwhelming response, with nearly 74 enthusiastic and active participants from second year Electronics.

The hands-on training was coordinated by Prof. S. J.Meshram and Prof. N.G.Pardeshi. Dr. P.R.Deshmukh, Head of Electronics Department, and all faculty members extended their cooperation for the successful organization of the event. The student volunteers gave their best in managing the daily activities.

Dr. A.M.Mahalle, Principal, Government College of Engineering, Amravati congratulated the coordinators, Head of the department, faculty and staff members and students for their sincere efforts that helped making the hands-on training successful.